

Curriculum Vitae

Personal Information

Name	Andrea Koop
Date of birth	August 21, 1979
Place of birth	Krefeld (Germany)
Nationality	German

Education

October 2009 – present	Instructor, RUSH University Medical Center, Department of Molecular Biophysics and Physiology and Biophysics and Biochemistry and Molecular Biology, Canada, supervisor: Dr. Michael Fill. research project: <i>'Impact of antidepressant drugs on SOICR in HEK293 and cardiomyocytes'</i>
October 2007 – October 2009	Postdoctoral Fellow, University of Calgary, Department of Physiology and Biophysics and Biochemistry and Molecular Biology, University of Calgary, Canada, supervisor: Dr. Wayne Chen, research project: <i>'Understanding the molecular defects and treatment of human MH and CCD'</i>
July 2007 – September 2007	Postdoctoral Fellow at the Institute of Physiological Chemistry of the Medical Department of the Ruhr University of Bochum (Germany)
July 2004 – July 2007	Ph.D. studies, Institute of Physiological Chemistry, Medical School, Ruhr University of Bochum (Germany): <i>'Functional consequences of a single nucleotide polymorphism in the human cardiac ryanodine receptor'</i> , supervisor: Dr. R. S. Goody, grade: very good (A). Subsidiary lecture: <i>'Chromatography and compound analysis / Bioanalysis and sensors'</i> , grade: very good (A).
November 2003 - May 2004	Diploma thesis, Institute of Physiological Chemistry, Medical School, Ruhr University of Bochum (Germany): <i>'Characterization of a second binding site of ScPEX5p in ScPex13p'</i> , supervisor: Dr. R. Erdmann, grade: very good (A).
October 1999 – May 2004	Undergraduate and Graduate School of Biochemistry, Ruhr University Bochum (Germany) Diploma, grade: very good (A-).

September 1990 – June 1999 Secondary school, St.-Hildegardis-Gymnasium, Duisburg (Germany), grade: very good (1.1).

September 1986 – July 1990 Elementary school, GGS an der Kirchstrasse, Duisburg (Germany)

Teaching experience

July 2004 – July 2007 Supervision of class 'Biochemistry and Pathobiochemistry' for second and fourth year medical students, Ruhr University of Bochum (Germany)

August 2004 Supervision of Bachelor thesis Amke Hesse: '*Cloning and expression of the human cardiac calsequestrin*', Ruhr University of Bochum (Germany)

Scientific stay abroad

March 2006 - July 2006 Visiting scientist, Department of Physiology and Biophysics and Biochemistry and Molecular Biology, University of Calgary, Canada, laboratory of Prof. Dr. S. R. Wayne Chen

Awards and Scholarships

January 2007 – July 2007 Scholarship for PhD studies by Max-Planck Foundation (Germany)

January 2006 – December 2006 Scholarship for PhD studies by Heinrich-und-Alma-Vogelsang foundation (Germany)

Scientific activities and presentations

Februar 28 – March 04, 2009 XXXIII. Annual Meeting of the Biophysical Society, Boston, USA
Poster presentation and abstract: '*Understanding the molecular defects of human MH and CCD*'

June 04 – 06, 2008 Mazankowski Inaugural Congress, Edmonton, Alberta, Canada, **participation.**

September 13, 2006 Focused Meeting of the Physiological Society: '*Control and Modification of excitation coupling in healthy and diseased muscle*', Ruprecht-Karls-University of Heidelberg (Germany), **participation.**

- September 09 – 12, 2006 XXXV. EMC meeting, Heidelberg (Germany),
Poster presentation: *'Generation and characterization of stable inducible cell lines expressing wild type and mutant RyR2 linked to Arrhythmogenic Right Ventricular Cardiomyopathy'*.
- December 02, 2005 FoRUM Research Congress, Bergmannsheil Hospital of the Ruhr University of Bochum (Germany),
Poster presentation: *'Compositoric heterozygote polymorphisms in the gene of the cardiac ryanodine receptor are associated with Arrhythmogenic Right Ventricular Cardiomyopathy (ARVC)'*.
- December 15 – 17, 2004 *'Soft Skills I & II, Communicating with Audiences & Giving Presentations'*, seminar of the Graduate School of Chemistry and Biochemistry, Ruhr University of Bochum (Germany), **participation.**
- December 08, 2004 FoRUM Research Congress, Bergmannsheil Hospital of the Ruhr University of Bochum (Germany), **participation.**

Publications:

- Koop A, Goldmann P, Thieleczek R, Chen SRW, Varsányi M.
'ARVC related mutations in divergent region 3 alter functional properties of the cardiac ryanodine receptor'
Biophys J. 2008 Jun; 94(12):4668-4677.
- Kong H, Jones PP, Koop A, Zhang L, Duff HJ, Chen SR.
'Caffeine induces Ca²⁺ release by reducing the threshold for luminal Ca²⁺ activation of the ryanodine receptor.'
Biochem J. 2008 Sep 15; 414(3):441-452.
- Submitted:
Wang R, Zhong X, Meng X, Koop A, Tian X, Jones PP, Fruen BR, Wagenknecht T, Liu Z
'Localization of the dantrolene binding sequence near the FKBP binding site in the three-dimensional structure of the ryanodine receptor.'
The Journal of Biochemistry on Jan. 07, 2011